

REMARKS

Claims 1, 3-6, 8-11 and 13-25 are pending in this application. By this Amendment, claims 1 and 11 are amended. These amendments are supported by Applicant's specification at least at, paragraph [0098]. Claims 24 and 25 are added. No new matter is added. Reconsideration of the application based on the above amendments and the following remarks is respectfully requested.

The courtesies extended to Applicant's representatives by Examiner Olaniran at the interview held August 20, 2009 are appreciated. The reasons presented at the interview as warranting favorable action are incorporated into the remarks below, which constitute Applicant's record of the interview.

The Office Action rejects claims 1, 3-6, 8-11, 13-23 under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent Application Publication No. 2001/0007591 to Pompei in view of U.S. Patent No. 3,953,825 to Kino et al. (hereinafter "Kino") and further in view of U.S. Patent No. 6,556,687 to Manabe. This rejection is respectfully traversed.

The Office Action concedes that Pompei does not teach generating a signal and forming a plurality of individual transducer outputs of the signal at a plurality of phases, the outputs having a common frequency and amplitude, the individual transducer outputs generating wavelets originating at a common origin with reference to a first axis, and the plurality of phases being generated using electronic delays, forming a plurality of focused hypersonic beams based on the wavelets, receiving a plurality of reflected hypersonic signals, detecting a plurality of objects based on the plurality of reflected hypersonic signals, learning sets of transmission parameters for optimal focus on the plurality of objects, the learning including associating a set of transmission parameters with each of a plurality of detected objects, storing the sets of transmission parameters and computing a resultant set of transmission parameters based on the stored sets of transmission parameters, generating the

plurality of hypersonic wavelets based on the resultant set of transmission parameters associated with a plurality of neighborhoods for the hypersonic beams. The Office Action asserts that Kino and Manabe remedy these shortfalls of Pompei. The analysis of the Office Action fails for the following reason.

Claim 1 recites, among other features, simultaneously detecting a plurality of objects based on the plurality of reflected hypersonic signals. Claim 11 recites similar features.

As agreed during the personal interview, and conceded on page 2, item 1 of the Office Action Pompei in view of Kino would not have suggested these features. Manabe does not remedy these shortfalls of Pompei and Kino.

For at least the foregoing reasons, the combination of Pompei with Kino and Manabe cannot reasonably be considered to have suggested the combinations of all of the features recited in claims 1 and 11. Further, combination of Pompei with Kino and Manabe cannot reasonably be considered to have suggested the combinations of all of the features recited in claims 3-6, 8-10 and 13-23 for at least the dependence of these claims on allowable base claims, as well as for the separately patentable subject matter that each of these claims recites.

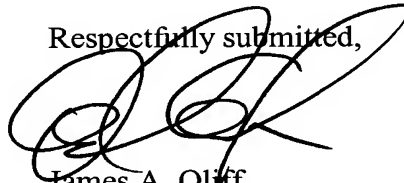
Accordingly, reconsideration and withdrawal of the rejection of claims 1, 3-6, 8-11 and 13-23 under 35 U.S.C. 103(a) as being unpatentable over Pompei in view of Kino and further in view of Manabe are respectfully requested.

Added claims 24 and 25 are supported by Applicant's specification at least at, paragraphs [0074] - [0082] and are allowable at least for their respective dependence directly or indirectly on an allowable base claim, as well as for the separately patentable subject matter that each of these claims recites.

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance of claims 1, 3-6, 8-11 and 13-25 are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,



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